

Ullman Sails Long Beach Race Week

Attachment B – Random Leg Courses

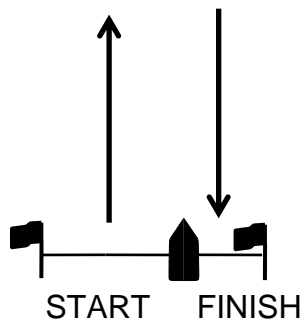
CHARLIE COURSE START & FINISH

| Course # | Distance | Mark Rounding Order (all marks rounded to port) |
|----------|----------|---|
| A | 10.6 | Start – 13/19 – 10 – 37s – 34 – 39 – 9 – Finish |
| B | 11.2 | Start – 30 – 10s – 3 – 7 – 8s – 9 – Finish |
| C | 12.5 | Start – 13/19 – 3 – 34 – 7 – 27 – 36 – Finish |
| D | 12.8 | Start – 82 – 30 – 32 – 33 – 9 – Finish |
| E | 12.9 | Start – 50/58 – 13/19 – 9 – 36 – Finish |
| F | 13.8 | Start – 82 – 24 – 37s – Finish |
| G | 14.2 | Start – 37s – 27 – 13/19 – 1 – 35 – 32 – 33 – 34 – 39 – 9 – Finish |
| H | 15.0 | Start – 55 – Finish |
| I | 15.3 | Start – 82 – 7s – 31 – 33 – 27 – 9 – Finish |
| J | 16.6 | Start – 30 – 35 – 9 – 30 – 8s – 32 – 39 – 36 – Finish |
| K | 16.9 | Start - 50/58 – 35 – 39 – 9 – Finish |
| L | 17.5 | Start – 13/19 – 3 – 32 – 34 – 7 – 27 – 36 – 10s – 13/19 – Finish |
| M | 18.0 | Start – 13/19 – 4 – 13/19 – Finish |
| N | 18.8 | Start – 13/19 – 3 – 32 – 34 – 7 – 27 – 36 – 8s – 10s – 13/19 – Finish |
| O | 23.6 | Start – 50/58 - 20 - 13/19 – Finish |
| P | 23.7 | Start – 50/58 – 4 – 13/19 – Finish |
| Q | 24.4 | Start – 13/19 – 18 – 4 – 3 – 10 – 37s – Finish |

All Marks Rounded to Port unless otherwise indicated.

Mark 13/19 and 50/58 are gate marks and a boat's track must comply with RRS 28.2(c) when passing these marks.

Start and Finish are as shown in the diagram opposite



Ullman Sails Long Beach Race Week

Schedule of Permanent Marks

| MARK | Mark Description | Latitude | Longitude |
|-------|---|---------------|----------------|
| Start | Charlie Course Race Committee (Approx) | 33°44'32.67"N | 118° 9'7.26"W |
| 1 | Anaheim Bay Channel Buoy - R "2" QR Whistle | 33°42'55.26"N | 118° 6'33.41"W |
| 3 | Platform Esther | 33°43'7.10"N | 118° 6'51.20"W |
| 4 | Platform Eva | 33°39'42.25"N | 118° 3'43.37"W |
| 5 | Platform Emmy | 33°39'43.20"N | 118° 2'36.60"W |
| 7 | Island White | 33°45'9.38"N | 118° 9'35.77"W |
| 8 | Island Chaffee | 33°44'23.09"N | 118° 8'20.73"W |
| 9 | Island Freeman | 33°44'28.40"N | 118° 9'44.60"W |
| 10 | East End of Long Beach Breakwater | 33°43'22.56"N | 118° 8'8.56"W |
| 13 | West End of Long Beach Breakwater "Queen's Gate" | 33°43'22.90"N | 118°11'8.90"W |
| 16 | Anaheim Bay Channel Buoy G "1" FL G 4 sec BELL | 33°43'0.42"N | 118°6'41.82"W |
| 18 | Platform Ellen & Elly | 33°34'57.00"N | 118° 7'42.00"W |
| 19 | East End of Middle Breakwater | 33°43'22.90"N | 118°11'8.90"W |
| 20 | Platform Edith | 33°35'45.00"N | 118° 8'27.00"W |
| 24 | Anaheim Bay Channel Buoy CG"3" | 33°43'23.28"N | 118°6'22.73"W |
| 27 | R "2" Buoy near Pier J | 33°44'26.56"N | 118°10'38.00"W |
| 50 | West End of the Middle Breakwater - Angel's Gate | 33°43'38.34"N | 118°14'42.39"W |
| 55 | Point Fermin Whistle Buoy - R "6" FI R 4sec Whistle | 33°41'55.70"N | 118°17'30.00"W |
| 58 | East End of the San Pedro Breakwater Angel's Gate | 33°42'29.37"N | 118°15'3.69"W |

Schedule of Semi-Permanent Marks

| MARK | Mark Description | Latitude | Longitude |
|------|---|--------------|---------------|
| 30 | Spar Buoy 100 yards north of West Measured Mile Marker | 33° 43.490'N | 118° 09.900'W |
| 31 | Spar Buoy 100 yards north of East Measured Mile Marker | 33° 43.490'N | 118° 08.690'W |
| 32 | Spar Buoy 1/2 mile NW from the West End of the Alamitos Bay Jetty. | 33° 44.473'N | 118° 07.425'W |
| 33 | Spar Buoy 1 mile NW of West End of Alamitos Bay Jetty. | 33° 44.960'N | 118° 08.100'W |
| 34 | Spar Buoy 500 yards east from the end of Belmont Pier. | 33° 45.260'N | 118° 08.750'W |
| 35 | Spar Buoy 600 yards west from the end of Seal Beach Municipal Pier | 33° 44.103'N | 118° 06.897'W |
| 36 | Spar Buoy 1/2 mile west of the West Measured Mile Marker, and 100 yards north of the Breakwater | 33° 43.470'N | 118° 10.450'W |
| 37 | Spar Buoy 100 yards north of the « mile Measured Mile Marker, midway between Mark 31 and Mark 30. | 33° 43.480'N | 118° 09.310'W |
| 38 | Spar Buoy 400 yards SE from the south Marker Horn on Island Chaffee. | 33° 44.107'N | 118° 08.185'W |
| 39 | Spar Buoy 1/2 mile ENE of Island Grissom | 33° 45.560'N | 118° 10.311'W |
| 40 | Spar Buoy, 3/4 mile SW of Seal Beach Pier. | 33° 43.383'N | 118° 07.058'W |
| 82 | Spar Buoy 100 yards north of the Middle Breakwater, about half way between bend in Breakwater and Angel's Gate. | 33° 43.059'N | 118° 13.559'W |

1. When passing or rounding oil platforms boats must stay outside the Exclusion Zone.
2. Mark locations vary slightly due to tide changes which affects swing.
3. Marks may not be on station for various reasons.
4. The Spar Buoys are Yellow.
5. Locations and distances, when given are approximate
6. Chart references: No's, 18746 & 18749

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